

30-OCT-09
16:29:16

GEORGIA DEPARTMENT OF TRANSPORTATION
PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN
LIVE LOAD CASE PROGRAM
REVISED: JUNE 26, 2008

PROB. NO. LL01

36.02' CURB-TO-CURB; 6 BEAMS; 140.00' AVERAGE SPAN

BRIDGE WIDTH	X1	X2	CENTER LINE DISTANCE	# OF BEAMS	REACTION FORCE	MAXIMUM # OF TRUCKS	# OF COLUMNS	COLUMN WIDTH	SKEW ANGLE
39.273	3.625	3.625	19.637	6	68.706	3	2	5.000	0

D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
3.637	6.400	6.400	6.400	6.400	6.400														

XCOL1	XCOL2	XCOL3	XCOL4	XCOL5
10.500	18.273			

LIVE LOAD CASE # 1 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.0644	73.129
2	0.9356	64.283
3	0.0000	0.000
4	0.0000	0.000
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 2 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.0644	73.129
2	1.3750	94.471
3	1.0625	73.000
4	0.4981	34.224
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 3 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	1.0644	73.129
2	1.3750	94.471
3	1.0625	73.000
4	1.3750	94.471
5	1.0625	73.000
6	0.0606	4.165

LIVE LOAD CASE # 4 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.0000	0.000
4	0.0000	0.000
5	0.9358	64.294
6	1.0642	73.118

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LIVE LOAD CASE # 5 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.0000	0.000
3	0.4983	34.235
4	1.0625	73.000
5	1.3750	94.471
6	1.0642	73.118

LIVE LOAD CASE # 6 3 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0608	4.176
2	1.0625	73.000
3	1.3750	94.471
4	1.0625	73.000
5	1.3750	94.471
6	1.0642	73.118

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LIVE LOAD CASE # 7 1 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.4688	32.206
3	1.0625	73.000
4	0.4688	32.206
5	0.0000	0.000
6	0.0000	0.000

LIVE LOAD CASE # 8 2 TRUCKS

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BEAM	WHEEL FRACTION	P-LOAD
1	0.0000	0.000
2	0.4688	32.206
3	1.0625	73.000
4	1.3750	94.471
5	1.0625	73.000
6	0.0313	2.147

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LIVE LOAD CASE # 9 2 TRUCKS

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BEAM   WHEEL FRACTION   P-LOAD
1       0.0000           0.000
2       0.7500           51.530
3       1.2500           85.883
4       1.2500           85.882
5       0.7500           51.529
6       0.0000           0.000
  
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LIVE LOAD CASE # 10 2 TRUCKS

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BEAM   WHEEL FRACTION   P-LOAD
1       1.0644           73.129
2       0.9356           64.283
3       0.0000           0.000
4       0.0000           0.000
5       0.9358           64.294
6       1.0642           73.118
  
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LIVE LOAD CASE # 11 3 TRUCKS

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BEAM   WHEEL FRACTION   P-LOAD
1       1.0644           73.129
2       1.3750           94.471
3       1.0625           73.000
4       0.4981           34.224
5       0.9358           64.294
6       1.0642           73.118
  
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 PRECONSTRUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN
 SUMMARY OF THE LIVE LOAD CASE PROGRAM
 REVISED: JUNE 26, 2008

PROB. NO. LL01

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39.273	3.625	3.625	19.637	6	68.706	3	2	5.000	0	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	D13	D14	D15	D16	D17	D18	D19	D20
										3.637	6.400	6.400	6.400	6.400	6.400														
XCOL1	XCOL2	XCOL3	XCOL4	XCOL5																									
10.500	18.273																												
	NO. OF TRUCKS	BEAM 1	BEAM 2	BEAM 3	BEAM 4	BEAM 5	BEAM 6	BEAM 7	BEAM 8	BEAM 9	BEAM 10																		
LL CASE 1	1	73.129	64.283	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000																		
LL CASE 2	2	73.129	94.471	73.000	34.224	0.000	0.000	0.000	0.000	0.000	0.000																		
LL CASE 3	3	73.129	94.471	73.000	94.471	73.000	4.165	0.000	0.000	0.000	0.000																		
LL CASE 4	1	0.000	0.000	0.000	0.000	64.294	73.118	0.000	0.000	0.000	0.000																		
LL CASE 5	2	0.000	0.000	34.235	73.000	94.471	73.118	0.000	0.000	0.000	0.000																		
LL CASE 6	3	4.176	73.000	94.471	73.000	94.471	73.118	0.000	0.000	0.000	0.000																		
LL CASE 7	1	0.000	32.206	73.000	32.206	0.000	0.000	0.000	0.000	0.000	0.000																		

LL CASE							LL-36-6-140.OUT					
8	2	0.000	32.206	73.000	94.471	73.000	2.147	0.000	0.000	0.000	0.000	0.000
9	2	0.000	51.530	85.883	85.882	51.529	0.000	0.000	0.000	0.000	0.000	0.000
10	2	73.129	64.283	0.000	0.000	64.294	73.118	0.000	0.000	0.000	0.000	0.000
11	3	73.129	94.471	73.000	34.224	64.294	73.118	0.000	0.000	0.000	0.000	0.000

FOR PIER PROGRAM INPUT

61LL 1 1	73128	0 64283	0 0 0	0 0 0	0 0 0
61LL 2 2	73128	0 94470	0 73000 34224	0 0 0	0 0 0
61LL 3 3	73128	0 94470	0 73000 94470	0 73000 0	0 4165 0
61LL 4 1	0	0 0	0 0 0	0 64293 0	0 73118 0
61LL 5 2	0	0 0	0 34234 73000	0 94470 0	0 73118 0
61LL 6 3	4176	0 73000	0 94470 73000	0 94470 0	0 73118 0
61LL 7 1	0	0 32205	0 73000 32205	0 0 0	0 0 0
61LL 8 2	0	0 32205	0 73000 94470	0 73000 0	0 2147 0
61LL 9 2	0	0 51529	0 85882 85882	0 51529 0	0 0 0
61LL10 2	73128	0 64283	0 0 0	0 64293 0	0 73118 0
61LL11 3	73128	0 94470	0 73000 34224	0 64293 0	0 73118 0